# 2013
# ANNUAL TRAFFIC REPORT

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## NEVADA DEPARTMENT OF TRANSPORTATION

**www.nevadadot.com**

**Brian Sandoval,Governor**
**Rudy Malfabon,P.E.,Director**

# The Annual Traffic Report

**Is published by the Nevada Department of Transportation**
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***Nevada Department of Transportation***
***1263 S. Stewart Street***
***Carson City, Nevada 89712***


**Brian Sandoval, Governor**
**Rudy Malfabon, P.E., Director**


If you have any comments, questions, or need additional information
regarding the contents of this report, please contact
Traffic Information Division at (775) 888-7158
or E-mail at
info@dot.state.nv.us
www.nevadadot.com

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# INTRODUCTION

The administration of approximately 5,400 miles of roads in the State of Nevada Highway System involves the expenditure of hundreds of millions of dollars annually for construction, reconstruction and maintenance. Also, it imposes the responsibility of selecting and designing new roads, and the planning of future construction and development.

It is necessary to keep current data on motor vehicle trends for numerous reasons including: Design of new construction to service the volume and type of traffic a roadway will carry. Selection of new routes to serve the greatest area and maximum number of motorists while maintaining cost efficiency. Design of future projects to coincide with expected development and to schedule maintenance when and where it is most needed.

Perhaps the single most reliable statistics available to guide the highway engineer and the planner are the type and volume of traffic on each section of highway under consideration for future improvement. Responsibility for the collection, tabulation and analysis of these trends is vested in the Traffic Information Division of the Nevada Department of Transportation.

During 2013, hourly traffic volumes were monitored continuously at 98 locations statewide. These sites commonly referred to as Automatic Traffic Recorders (ATR's) are presented in summary form beginning on page 14 of this report. In addition, traffic volumes were collected in short periods (7days) and factored to Annual Average Daily Traffic (AADT's). These summary statistics including a ten-year history (if available) are presented by county in the Annual Average Daily Traffic Count Stations portion of this report, which begins on page 112.

# STATISTICS

The methods used to derive the "Annual Average Daily Traffic" (AADT) for the Automatic Traffic Recorder (ATR) sites in this book are:

1. Each day of the week is averaged for the month.

2. The seven average days (Sunday through Saturday) are averaged which provides "Monthly Average Daily Traffic" (MADT).

3. The twelve MADT's (January through December) are averaged, which then yields the AADT.

The methods used to derive the "Annual Average Daily Traffic" for Annul Average Daily Traffic Count Station section in this report are:

1. The total raw count from a five to seven day short period count is divided by the number of hours sampled and the quotient is then multiplied by 24 (24 hours in a day).

2. The above product is then factored using summary statistics from ATR's to derive a Monthly Average Daily Traffic (MADT).

3. The MADT is once again factored for seasonality using summary statistics from ATR's which produces Annual Average Daily Traffic (AADT). The AADT summary statistics in this report represent a composite of both directions.

4. Those locations sampled with an axle sensor are then factored once more using factors developed from vehicle classification statistics. This procedure factors out inflated counts due to extra axle vehicles.

Data is collected in an hourly increment at all count locations statewide. This data is available upon request from the Traffic Information Division staff by calling at (775) 888-7158.

# ANNUAL AVERAGE DAILY TRAFFIC AT PORTABLE COUNT STATIONS NUMBERING SYSTEM

The Annual Average Daily Traffic Count Station section of this report contains a ten-year history of Annual Average Daily Traffic at portable (short-term) count locations. This data is divided into counties including maps depicting individual count locations. Short-term count locations are represented on the maps in red and consist of the four- digit identification number with all leading zeros removed. All short-term count locations are listed with the county three digit code and the four-digit station identifier in a table located directly adjunct to the individual county map.

| | | Depicted on map | Depicted in Table 3 |
|---|---|---|---|
| Example of table three: | Clark county station number | 0001 | 0030001 |
| | Mineral county station number | 0033 | 0210033 |
| | Washoe county station number | 0114 | 0310114 |

*Please note count stations in Clark County in the 2000 series numbers are counts provided by the Regional Transportation Commission and count stations in the 6000 series numbers are counts provided by the City of North Las Vegas. In Lyon County 1000 series numbers are counts provided by Lyon County. In addition to the short-term locations, Automatic Traffic Recorder (ATR) locations are indicated on the maps in blue with a four-digit identification number. Please note that an AADT for ATR's is found only in the Automatic Traffic Recorder (ATR) section of the Traffic Manual. Below is a listing of the counties and their prefix numbers. County code numbers are in bold print and located in the upper right hand corner on all county maps.

| County | Prefix Number |
|---|---|
| Carson City | 025 |
| Churchill | 001 |
| Clark | 003 |
| Douglas | 005 |
| Elko | 007 |
| Esmeralda | 009 |
| Eureka | 011 |
| Humboldt | 013 |
| Lander | 015 |
| Lincoln | 017 |
| Lyon | 019 |
| Mineral | 021 |
| Nye | 023 |
| Pershing | 027 |
| Storey | 029 |
| Washoe | 031 |
| White Pine | 033 |

# AUTOMATIC TRAFFIC RECORDERS (ATR)

In addition to the short-term locations, Automatic Traffic Recorder (ATR) locations are indicated on the maps in blue with a four-digit identification number. Please note that an AADT for an ATR is found only in the Automatic Traffic Recorder (ATR) section of the Traffic Manual. Use the three digit county code number as the prefix to the four digit blue number to locate the desired ATR in the ATR section. Example 007 (Elko county code) 5260 (ATR number) =0075260.

Summary data for ATR sites can be found in the Automatic Traffic Recorder section of this report. The ATR section provides the user with Monthly Average Daily Traffic (MADT) and a 10-year history of the AADT with the percent of change from the previous year. This section also provides Average Daily Traffic (ADT), Average Weekday Traffic and Average Weekend Traffic. (Please note Friday ADT is not used to calculate Average Weekday or Weekend Traffic).

The percent design hour volume (DHV) of the AADT is provided in the ATR summaries and is a tool used in the design process. It is the hour used to design a highway as it represents the highest volume the highway will have to accommodate. To a greater extent, the design hour volume determines pavement widths and other geometric features.